

CLAIM AMENDMENTS

Please amend the claims as follows:

Please cancel claims 1-249.

Please add new claims 250-321 as follows:

250. (New) A method for interfacing between a terminal and a radio network, wherein the radio network has an asynchronous operating type and the terminal has a hybrid operating type being possible to be set as either a synchronous operating type or the asynchronous operating type, the method comprising the steps of:

a) providing the terminal with a message including a core network operating type information representing an operating type of a core network.

251. (New) The method as recited in claim 250, wherein the step a) includes the steps of:

a1) storing a core network operating type information; and  
a2) reading the core network operating type information stored on a storage device during a time period of initialization of the radio network.

252.(New) The method as recited in claim 251, wherein the storage device includes a dip switch for designating the operating type of the core network.

253.(New) The method as recited in claim 251, wherein the storage device includes a memory for storing the operating type of the core network.

254.(New) The method as recited in claim 253, wherein the memory is a read only memory (ROM).

255.(New) The method as recited in claim 250, wherein the step a) includes the steps of:

a1) inserting the core network operating type information into the message; and

a2) transmitting the message to the terminal through a predetermined channel.

256.(New) The method as recited in claim 255, wherein the predetermined channel is a broadcast control channel.

257.(New) The method as recited in claim 250, wherein, in said step a1), the core network operating type information is periodically inserted into the message.

258.(New) The method as recited in claim 250, wherein the message includes a master information block.

259.(New) The method as recited in claim 250, wherein the message includes a system information message.

260.(New) The method as recited in claim 250, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCKS		1.. <MAX SYS INFO BLOCK COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		GSM-MAP	
PLMN IDENTITY	C-GSM			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

261.(New) The method as recited in claim 250, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCKS		1.. <MAX SYS INFO BLOCK COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		ANSI-41	
ANSI-41 INFORMATION ELEMENTS	C-ANSI			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

262.(New) The method as recited in claim 250, wherein the core network operating type information includes is an ANSI-41 information representing a synchronous operating type core network.

263.(New) The method as recited in claim 250, wherein the core network operating type information includes a global system for mobile communications application part (GSM-MAP) information representing an asynchronous operating type core network.

264.(New) The method as recited in claim 250, wherein the core network operating type information includes an ANSI-41 information representing a synchronous operating type core network and a global system for mobile communications application part (GSM-MAP) information representing an asynchronous operating type core network.

265.(New) An apparatus for interfacing between a terminal and a radio network, wherein the radio network has an asynchronous operating type and the terminal has a hybrid operating type being possible to be set as either a synchronous operating type or the asynchronous operating type, comprising:

a storage device, contained in the radio network, for storing core network operating type information representing an operating type of a core network;

extraction block, contained in the radio network, for reading the core network operating type information during a time period of initialization of the radio network; and

messaging block, contained in the radio network, for periodically providing the terminal with the core network operating type information contained in a message through a predetermined channel.

266.(New) The apparatus as recited in claim 265, wherein the storage device includes a dip-switch for designating the operating type of the core network.

267.(New) The apparatus as recited in claim 265, wherein the storage device includes a memory for storing the operating type of the core network.

268.(New) The apparatus as recited in claim 267, wherein the memory is a read only memory (ROM).

269.(New) The apparatus as recited in claim 265, wherein the predetermined channel is a broadcast control channel.

270.(New) The apparatus as recited in claim 265, wherein the message includes a master information block.

271.(New) The apparatus as recited in claim 265, wherein the message includes a system information message.

272.(New) The apparatus as recited in claim 265, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
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OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCKS		1.. <MAX SYS INFO BLOCK COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		GSM-MAP	
PLMN IDENTITY	C-GSM			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

273.(New) The apparatus as recited in claim 265, wherein  
the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM		1.. <MAX SYS INFO BLOCK		

INFORMATION BLOCKS		COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		ANSI-41	
ANSI-41 INFORMATION ELEMENTS	C-ANSI			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

274.(New) The apparatus as recited in claim 265, wherein the core network operating type information includes an ANSI-41 information representing a synchronous operating type core network.

275.(New) The apparatus as recited in claim 265, wherein the core network operating type information includes a global system for mobile communications application part (GSM-MAP) information representing an asynchronous operating type core network.

276.(New) The apparatus as recited in claim 265, wherein the core network operating type information includes an ANSI-41



information representing a synchronous operating type core network and a global system for mobile communications application part (GSM-MAP) information representing an asynchronous operating type core network.

277.(New) The apparatus as recited in claim 265, wherein the radio network includes at least one BTS for transmitting the message and BSC for controlling the BTS.

278.(New) A method for interfacing between a terminal and a radio network connected to a core network, wherein the terminal has a hybrid operating type being possible to be set as either a synchronous operating type or an asynchronous operating type, the radio network is the asynchronous operating type and the core network is an ANSI-41 and GSM-MAP operating type, said method comprising the steps of:

a) providing the terminal with a message including a core network operating type information representing an operating type of a core network.

279.(New) The method as recited in claim 278, wherein the step a) includes the steps of:

a1) storing a core network operating type information; and

a2) reading the core network operating type information stored on a storage device during a time period of initialization of the radio network.

280.(New) The method as recited in claim 279, wherein the storage device includes a dip switch for designating the operating type of the core network.

281.(New) The method as recited in claim 279, wherein the storage device includes a memory for storing the operating type of the core network.

282.(New) The method as recited in claim 281, wherein the memory is a read only memory (ROM).

283.(New) The method as recited in claim 278, wherein the step a) includes the steps of:

a1) inserting the core network operating type information into the message; and

a2) transmitting the message to the terminal through a predetermined channel.

284.(New) The method as recited in claim 283, wherein the predetermined channel is a broadcast control channel.

285.(New) The method as recited in claim 283, wherein, in said step a1), the core network operating type information is periodically inserted into the message.

286.(New) The method as recited in claim 278, wherein the message includes a master information block.

287.(New) The method as recited in claim 278, wherein the message includes a system information message.

288.(New) The method as recited in claim 278, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCKS		1.. <MAX SYS INFO BLOCK COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		ANSI-41	
ANSI-41 INFORMATION ELEMENTS	C-ANSI			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN

	TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")
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289.(New) An apparatus for interfacing between a terminal and a radio network connected to a core network, wherein the terminal has a hybrid operating type being possible to be set as either a synchronous operating type or an asynchronous operating type, the radio network is the asynchronous operating type and the core network is an ANSI-41 and GSM-MAP operating type, said apparatus comprising:

a storage device for storing core network operating type information representing an operating type of a core network;

extraction block for reading the core network operating type information during a time period of initialization of the radio network; and

messaging block for providing the terminal with the core network operating type information contained in a message through a predetermined channel.

290.(New) The apparatus as recited in claim 289, wherein the storage device includes a dip-switch for designating the operating type of the core network.

291.(New) The apparatus as recited in claim 289, wherein the storage device includes a memory for storing the operating type of the core network.

292.(New) The apparatus as recited in claim 291, wherein the memory is a read only memory (ROM).

293.(New) The apparatus as recited in claim 289, wherein the messaging block:

inserts the core network operating type information into the master information block; and

provides the terminal with the master information block through a predetermined channel.

294.(New) The apparatus as recited in claim 293, wherein the predetermined channel is a broadcast control channel.

295.(New) The apparatus as recited in claim 293, wherein the core network operating type information is periodically inserted into the master information block.

296.(New) The apparatus as recited in claim 289, wherein the message includes a master information block.

297.(New) The apparatus as recited in claim 289, wherein the message includes a system information message.

298.(New) The apparatus as recited in claim 289, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
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OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCKS		1.. <MAX SYS INFO BLOCK COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		ANSI-41	
ANSI-41 INFORMATION ELEMENTS	C-ANSI			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

299.(New) The apparatus as recited in claim 289, wherein the radio network includes at least one BTS for transmitting a synchronous channel message and BSC for controlling the BTS.

300.(New) A method for interfacing between a terminal and a radio network connected to a core network, wherein the terminal has a hybrid operating type being possible to be set as either a synchronous operating type or an asynchronous operating type, the radio network is the asynchronous operating type and the

core network are a GSM-MAP operating type, said method comprising the steps of:

a) providing the terminal with a message including a core network operating type information representing an operating type of a core network.

301.(New) The method as recited in claim 300, wherein the step a) includes the steps of:

a1) storing a core network operating type information in a storage device; and

a2) reading the core network operating type information stored on a storage device during a time period of initialization of the radio network.

302.(New) The method as recited in claim 301, wherein the storage device includes a dip switch for designating the operating type of the core network.

303.(New) The method as recited in claim 301, wherein the storage device includes a memory for storing the operating type of the core network.

304.(New) The method as recited in claim 303, wherein the memory is a read only memory (ROM).

305.(New) The method as recited in claim 300, wherein the step a) includes the steps of:

a1) inserting the core network operating type information into the message; and

a2) transmitting the message to the terminal through a predetermined channel.

306.(New) The method as recited in claim 305, wherein the predetermined channel is a broadcast control channel.

307.(New) The method as recited in claim 305, wherein, in said step a1), the core network operating type information is periodically inserted into the message.

308.(New) The method as recited in claim 300, wherein the message includes a master information block.

309.(New) The method as recited in claim 300, wherein the message includes a system information message.

310.(New) The method as recited in claim 300, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCKS		1.. <MAX SYS INFO BLOCK COUNT>		



>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		GSM-MAP	
PLMN IDENTITY	C-GSM			

CONDITION	EXPLANATION
GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

311.(New) An apparatus for interfacing between a terminal and a radio network connected to a core network, wherein the terminal has a hybrid operating type being possible to be set as either a synchronous operating type or an asynchronous operating type, the radio network is the asynchronous operating type and the core network are a GSM-MAP operating type, said apparatus comprising:

a storage device for storing core network operating type information representing an operating type of a core network;

extraction block for reading the core network operating type information during a time period of initialization of the radio network; and

messaging block for providing the terminal with the core network operating type information contained in a message through a predetermined channel.

312.(New) The apparatus as recited in claim 311, wherein the storage device includes a dip-switch for designating the operating type of the core network.

313.(New) The apparatus as recited in claim 311, wherein the storage device includes a memory for storing the operating type of the core network.

314.(New) The apparatus as recited in claim 313, wherein the memory is a read only memory (ROM).

315.(New) The apparatus as recited in claim 311, wherein the messaging block:

inserts the core network operating type information into the master information block; and

provides the terminal with the master information block through a predetermined channel.

316.(New) The apparatus as recited in claim 315, wherein the predetermined channel is a broadcast control channel.

317.(New) The apparatus as recited in claim 315, wherein the core network operating type information is periodically inserted into the master information block.

318.(New) The apparatus as recited in claim 311, wherein the message includes a master information block.

319.(New) The apparatus as recited in claim 311, wherein the message includes a system information message.

320.(New) The apparatus as recited in claim 311, wherein the message is represented by:

INFORMATION ELEMENT	PRESENCE	MULTI	IE TYPE AND REFERENCE	SEMANTICS DESCRIPTION
OTHER INFORMATION ELEMENTS				
MIB VALUE TAG	M			
REFERENCES TO OTHER SYSTEM INFORMATION BLOCKS		1.. <MAX SYS INFO BLOCK COUNT>		
>SCHEDULING INFORMATION	M			
CN INFORMATION ELEMENTS				
CN TYPE	M		GSM-MAP	
PLMN IDENTITY	C-GSM			

CONDITION	EXPLANATION
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GSM	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " GSM-MAP") OR (CN TYPE == "GSM-MAP AND ANSI-41")
ANSI	THIS INFORMATION ELEMENT SHALL BE PRESENT IN CASE (CN TYPE == " ANSI-41") OR (CN TYPE == "GSM-MAP AND ANSI-41")

321.(New) The apparatus as recited in claim 311, wherein the radio network includes at least one BTS for transmitting the message and BSC for controlling the BTS.